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THE GENERA AND SUBGENERA OF LEIODIDÆ AND CLAMBIDÆ¹

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The preparation by the author of the portion on Leiodidæ and Clambidæ of the Junk-Schenkling *Coleopterorum Catalogus* made it desirable to establish a sequence for the genera of those families. The following key, compiled from the literature, is presented as exhibiting the basis of that sequence. A similar key to the species of *Colenis* Er. is appended at the end of the key to genera.

LEIODIDÆ

A¹. With eyes; tarsi three to five segmented; abdomen six (♂) or five segmented (♀).

B¹ Head without antennal groove beneath; tibiæ without longitudinal dorsal carina; anterior tarsi without spines; body usually not contractile **LEIODINI**

C¹. Metatarsi five segmented.

D¹. Antennal club five segmented.

E¹. Head short; clypeus small, feebly emarginate; pronotum transverse; tarsi 5-5-5; Holarctic, Oriental, Chili.

Hydnobius Schm.

E². Head very prominent; clypeus distinct, deeply emarginate with four strong setæ; pronotum oval or oboval; Australia, Panama **Dietta** Sharp.

D². Antennal club three segmented.

E¹. Tibiæ slender, not strongly spinulate; Holarctic.

Triarthron Märkel.

E². Tibiæ dilated, strongly spinulate; Madeira **Stereus** Woll.

¹ Contribution from the Zoölogical Laboratory of the University of Washington.

C². Metatarsi with less than five segments.

D¹. Tarsi 5-5-4.

E¹. Antennal club five segmented.

F¹. Pronotum not or feebly margined at base; protibia with moderately elongate spurs at apex, the outer edge with or without a tooth at extreme apex, not emarginate (*Anisotoma* Schm., Br., Lacord., Lec., Seidl., Horn, Leng, etc.—*Liodes* Reitt., Ganglb., etc.).....**Leiodes** Latr.

G¹. Mesosternum not carinate; Nev., Cal. (type *L. ecarinata* Horn)subg. *Ecarinosphaerula* nov.

G². Mesosternum feebly carinate, the carina terminating at the anterior margin of the mesosternum.

H¹. Interstitial rows of punctures feeble; Holarctic, Cent. Amer.sub. *Leiodes* s. str.

H². Interstitial rows of punctures as distinct as the striae rows; Europe.....subg. *Pseudohydnoebius* Ganglb.

G³. Mesosternum strongly carinate; metasternum short.

¹. Hind margin of pronotum feebly arcuate, its hind angles broadly rounded; wingless; Holarctic.

subg. *Oreosphaerula* Ganglb.

H². Hind margin of pronotum more nearly straight.

I¹. Outer apical angle of ♂ metatibia with a heel-like tooth; Europe.....subg. *Trichosphaerula* Fleisch.

I². Outer apical angle of ♂ metatibia with a small tooth; all elytral striae the same; Palearctic.

subg. *Oosphaerula* Ganglb.

F². Pronotum completely margined at base; protibia with long spurs at apex, the outer edge strongly emarginate towards apex forming a lobe-like tooth at a distance of from one third to one half the distance from the apical end; Palaeartic**Chobautiella** Reitt.

E². Antennal club four segmented; Neartic, Cape of Good Hope.

Anogdus Lec.

E³. Antennal club three segmented.

F¹. Elytra not transversely strigose; mesosternum not carinate; Cent. Europe**Xanthosphaera** Fairm.*

F². Elytra transversely strigose; mesosternum narrowly carinate; Cent. Africa**Hypoliodes** Port.

D². Tarsi 5-4-4; elytra striate.

E¹. Elytra not transversely strigose; antennal club five segmented with eighth segment narrower than seventh.

F¹. Elytral striae not impressed, except sutural, but represented by rows of punctures; New York.....**Cainosternum** Notman

F². Elytral striae obsolete except sutural; Sikkim, Java.

Liocolenis Port.**

- E². Elytra transversely strigose.
- F¹. Eighth segment of antenna not smaller than seventh; antennal club six segmented.
- G¹. Elytra with punctate striæ; intervals punctate; Japan.
Pseudocolenis Port.
- G². Elytra without striæ other than sutural; Himalayas.
Liodinella Port.
- F². Eighth segment of antenna smaller than seventh; antennal club five segmented; Holarctic, Oriental, New Caledonia, Cent. Amer. (*Colensia* Fauv.—*Pseudoliodes* Port.—*Pseudocolenis* Champ. nec. Reitt.).....**Colenis** Er.
- D³. Tarsi 4-4-5.
- E¹. Antennal club six segmented; Sikkim.....**Delios** Port.
- E². Antennal club three segmented; Siberia.....**Deltocnemis** Sahlbg.
- D⁴. Tarsi 4-3-3; antennal club 5-segmented; Europe.
Agaricophagus Schm.
- B². Head with antennal groove beneath; except in *Cyrtusa* Er. the tibiæ with two longitudinal dorsal carinæ and the anterior tibiæ spinose; body more or less contractile.....**AGATHIDIINI**
- C¹. Head small; tempora short.
- D¹. Antennal club five segmented.
- E¹. Second segment of club not smaller than first; elytra without striæ; meso- and metatibiæ not spinose without; Japan.
Sphaeroliodes Port.
- E². Second segment of club smaller than first; meso- and metatibiæ spinose without.
- F¹. Tarsi 5-5-4 or 5-4-4.
- G¹. Elytra densely punctate; striæ present or absent; four proximal ♂ pro- and mesotarsomeres strongly dilated; tarsi 5-5-4 (♂), 5-4-4 (♀).
- H¹. Labrum truncate; clypeus with frontal suture; Holarctic, Tasmania, Argentina (*Leiodes* Schm., Er.—*Liodes* Lacord., Lec., Seidl., Horn, Leng, etc.).
Anisotoma Ill.
- H². Labrum arcuate; clypeus without frontal suture; Indiana.....**Stetholiodes** Fall.
- G². Elytra not or feebly punctate; striæ present or absent; ♂ protarsomeres feebly dilated; ♂ mesotarsomeres not dilated; tarsi 5-5-4; Japan.....**Eucyrta** Port.
- F². Tarsi 4-4-3-; procoxae open behind; Cent. Amer.
Creagrophorus Matth.

* The mesotarsi are unknown and may require the association of this genus with *Cainosternum* Notman and *Liocolenis* Port.

** Includes *Pseudocolenis levipennis* Port., Java.

- D². Antennal club four segmented.
 E¹. Antennæ eleven segmented; without striæ.
 F¹. Eyes not forming a sharp angle with tempora; Europe.
Liiodopria Reitt.
 F². Eyes forming a sharp angle with tempora; Europe.
Amphicyllis Er.
 E². Antennæ ten segmented; Cosmopolitan.....Cyrtusa Er.
 D³. Antennal club three segmented.
 E¹. Antennæ eleven segmented; eyes forming a sharp angle with
 tempora; Palaearctic.....Cyrtoplastus Reitt.
 E². Antennæ ten segmented.
 F¹. Mesocoxæ narrowly separated; Mich., D. C.
Isoplastus Horn
 F². Mesocoxæ widely separated; Zanzibar.....Isoplastinus Port.
 C². Head larger; tempora longer.
 D¹. Eighth antennal segment scarcely narrower than seventh; tarsi
 5-5-4 (♂), 5-4-4 or 4-4-4 (♀); antennal club three
 segmentedAgathidium Ill.
 E¹. Pronotum and elytra not evidently pubescent.
 F¹. Humeri obsolete; body completely contractile; Oriental, Hol-
 arctic, Cent. Amer. (*Cyphocele* Thoms. 1862).
subg. *Agathidium* s. str.
 F². Humeri evident, blunt; body incompletely contractile.
 G¹. Head behind eyes indistinctly narrowed; Palaearctic.
subg. *Neocycle* Gozis.
 G². Head behind eyes with evident tempora, thence narrowed;
 Palaearctic. (*Agathidium* s. str. Thoms. 1862.—*Sacco-*
cele Gozis.).....subg. *Cyphocele* Thoms.
 E². Dorsum evidently pubescent; Maritime Alps.
subg. *Chatocele* Deville
 D². Eighth antennal segment narrower than seventh; antennal club
 five segmented.
 E¹. Tarsi 5-5-5 (♂); India.....Agathodes Port.
 E². Tarsi 5-4-4 (♂), 4-4-4 (♀); Caucasus.....Ansibaris Reitt.
 E³. Tarsi 4-3-3 (♂), 3-3-3 (♀); N. Amer. (*Aglyptus* Lee-
Aglyptonotus Champ.).....Aglyptinus Cock.
 A². Without eyes; tarsi three segmented; antennæ with five segmented club
 of which the second segment is smaller than the first; abdomen five
 segmented; NeotropicalSCOTOCRYPTINI
 B¹. Body oval or oval oblong.
 C¹. Elytra with pubescence in part erect; Peru.....Synaristus Port.
 C². Elytra glabrous, irregularly strigose; Guatemala.....Parabystus Port.
 B². Body subtriangular; elytra without sculpture, only with pruinose
 pubescence.

- E². Seventh antennal segment twice as wide as eighth; length 1.3-2 mm.; Europe, Caucasus **immunda** Sturm.
- D². Sutural stria obsolete in front of middle; length 1.25 mm.; Panama **punctulata** Matth.
- C². Pronotum not transversely strigose; sutural stria nearly attaining scutellum; length 1.25 mm.; Guatemala..... **crassicornis** Matth.
- B². Head and pronotum not transversely strigose.
- C¹. Elytral striæ regular, strongly punctate; intervals strongly punctate; length 2 mm.; Japan..... **grandis** Port.
- C². Elytral striæ sinuous, minutely punctate; sutural stria confined to apical declivity; length 1-1.1 mm.; Guatemala.
phalacroides Champ.
- A². Elytral striæ indistinct, except the sutural.
- B¹. Sutural stria entire; head and pronotum not transversely strigose.
- C¹. Antennal club black.
- D¹. Sutural stria deep at base.
- E¹. Narrower, legs and antennæ shorter; the seventh antennal segment normal; length 2 mm.; W. Almora (India).
rastrata Champ.
- E². Broader, legs and antennæ longer; the seventh antennal segment dilated into a broad oblong plate; length 2.5 mm.; Naini Tal (India)..... **disparilis** Champ.
- D². Sutural stria faint at base; length 2.25 mm.; Kashmir.
indica Port.
- C². Antennal club dusky; length 2 mm.; Japan..... **strigosula** Port.
- B². Sutural stria obsolete in front of middle; pronotum not transversely strigose.
- C¹. Head transversely strigose; length 1.5-2 mm.; Atlantic to Ill., Tenn., and Fla. **impunctata** Lec.*
- C². Head not transversely strigose.
- D¹. Testaceous, antennal segments six to ten infuscate; length 2.25 mm.; Nilgiri Hills (India) **hemisphaerica** Champ.
- D². Rufo-testaceous, antennal club infuscate; length 1.5-1.8 mm.; W. Almora and Naini Tal (India)..... **estriata** Champ.
- D³. Piceous, with front, base of pronotum, segments one to four and eleven of antenna, legs, and usually a patch just behind the base of the elytra testaceous; length 2-2.25; Nilgiri Hills (India), Ceylon **variicornis** Champ.

* Apparently close to *impunctata* Lec. is **caledonica** Fauv. from New Caledonia. Length 1.5 mm.; without sculpture except for numerous fine closely placed transverse striolæ on the elytra, a sutural stria which is impressed on the declivity, and scarcely visible transverse striolæ on the front.